



**samlexsolar**<sup>®</sup>  
A Division of Samlex America Inc.

# 50W



**Charge  
Controllers**  
Samlex Series

Model  
SCC-30AB  
30 Amps

### Design Features

- Pulse Width Modulated (PWM) charging – most efficient and effective way to charge batteries
- Use with 12V or 24V Lead-Acid Flooded / AGM / Gel Cell and NiCad batteries
- 4-stage battery charging: Bulk, Absorption, Float and manual / automatic Equalization
- 8 selectable battery charging profiles for easy setup
- Temperature compensated charging with optional Temperature Sensor
- Digital LCD Monitor for informative display of operational parameters and fault messages
- Flush mount installation – ideal for RVs and motor homes

### Applications

- Recreational / Service Vehicles
- Boats and marine crafts
- Field work / mobile offices
- Telecommunications

## 5 YEAR WARRANTY

| ITEM                | PARAMETER   | SCC-30AB SPECIFICATIONS  |
|---------------------|---|--|
| INPUT               | MAXIMUM OPEN CIRCUIT VOLTAGE (Voc) OF SOLAR PANEL / ARRAY | 50V  |
|                     | MAXIMUM SHORT CIRCUIT CURRENT (Isc) OF SOLAR PANEL /ARRAY | 30A  |
|                     | MAXIMUM SELF CONSUMPTION OF THE CONTROLLER                | 50mA   |
| OUTPUT/<br>CHARGING | TYPE OF CONTROLLER  | Series, Pulse Width Modulation (PWM)   |
|                     | BATTERY SYSTEM VOLTAGE                                    | 12V / 24V (Switch selectable)  |
|                     | BATTERY TYPES   | Lead Acid: Flooded/AGM/Gel Cell; Ni-Cd   |
|                     | CHARGING ALGORITHM  | 4 Stage: Absorption, Float, Equalization   |
|                     | CHARGING PROGRAMS   | 8 Programs (Switch selectable)   |
|                     | ABSORPTION VOLTAGE (BASED ON SELECTED PROGRAM)            | 14.0V to 16.0V for maximum 1 hour  |
|                     | FLOAT VOLTAGE (BASED ON SELECTED PROGRAM)                 | 13.4V / 14.5V  |
|                     | EQUALIZATION VOLTAGE (BASED ON SELECTED PROGRAM)          | 14.2V to 15.3V:<br>- 1 to 3 hours<br>- Manual or automatic after 28 / 14 days interval   |
|                     | TEMPERATURE COMPENSATION                                  | With optional Temperature Sensor Model No.: DC-BTS-A-C:<br>- 30mV / °C for 12V Battery<br>- 60mV / °C for 24V Battery<br>- Compensation range: 0°C to 50°C |
| DISPLAY             | LCD DISPLAY   | Alpha Numeric Display for operational parameters and fault messaging - 7 selectable screens .  |
|                     | LED DISPLAY   | For charging status and fault indication. Single 3-color LED.  |
| PROTECTIONS         | OVER CURRENT  | Shut down at input current > 45A   |
|                     | OVER TEMPERATURE OF HEAT SINK (FACE PLATE)                | Temperature > 90°C: Disconnect panel / array<br>- Reconnect when cools down to 70°C  |
| ENVIRONMENTAL       | OPERATING TEMPERATURE RANGE                               | 0°C to +45°C / 32°F to 113 °F  |
|                     | STORAGE TEMPERATURE RANGE                                 | -55 °C to +85 °C / - 67 °F to 185 °F   |
|                     | HUMIDITY  | 95%, Non-condensing  |
| MECHANICAL          | DIMENSIONS (W X D X H)                                    | 190 x 108 x 34 mm / 7.5 x 4.25 x 1.35 in   |
|                     | WEIGHT  | 0.4 kg / 0.8 lb  |
|                     | ENCLOSURE / FACE PLATE                                    | Powder coated steel. For indoor use only   |

NOTE: Specifications are subject to change without notice

12010-SCC-30AB-0114